

საქართველოს
კრედიტ

2021
kredit

WELCOME TO SAEYANG

Thank you for your interest and support for our products.

We, Saeyang Microtech, has continued to grow since its foundation in 1976 specialized in manufacturing micro-handpieces for laboratory and dental field with enjoying a good reputation from overseas more than 100 countries as well as Korea.

The most important thing is superior quality of our products and through this, we always do our best for customer satisfaction as our top priority. Also we focus on developing new products by advanced technical innovation in R&D center and launching at least more than two models in the market with ongoing investments for new facilities each year.

We exhibit at overseas famous exhibitions more than 18 times in the United States, Germany, France, Spain, UK, Italy, H.K and China. During those exhibitions, we have a good opportunity to establish mutual trust and confidence with our buyers over 100 countries.

Saeyang will always do our best to listen to any needs and requirements of the customer.

Thank you for your continued support.

President & CEO

Jung Pil Shin



1976	Company Established
1977	Registered manufacturing of medical equipment.
1987	Registered trading business
1989	Registered Korea medical equipment cooperative association
1991	Registered of designs for engine for dental laboratory
1998	Certified ISO 9001 from TUV (Germany)
1999	Certified CE Mark from TUV (Germany)
2000	Certified Venture enterprise for high technology
2001	Awarded official Superior Exporting Firm
2001	Awarded Leading Enterprise
2002	Certified CE Mark of New item "Escort"
2003	Registered manufacturing Brushless motor
2003	Certified CE Mark of "Marathon Multi 600" Brushless motor
2004	Established R&D center
2004	Certified CE Mark of New item "Marathon N7&N2"
2005	Certified CE Mark of New item "Marathon HANDY700 Series" Brush/Brushless motor
2005	Awarded official best Exporting Firm
2006	Moved into a new factory
2006	Certified PSE from TUV
2006	Opening Ceremony of a new factory as well as the 30th anniversary
2008	Certified ISO 9001 : 2000 from SGS (U.K)
	Certified ISO 13485 : 2003 from SGS (U.K)
	Certified Directive 93/42/EEC from SGS (U.K)
2010	Certified CE Mark of New item "Endo e class"
2011	Development of Endo a class
2012	Dental contra angle
2013	Developed Implant Motor
2013	Certified FDA (Endo Motor)
2014	60,000RPM Handpiece Developed
2014	20:1 Optic Handpiede Developed
2015	Certified FDA CFDA(Implant Motor)
2015	Awarded Grand Prize for 2015 Best Company in Daegu City
2016	Awarded for Exporting US\$ 20 million
	Awarded for Daegu Star Company
2017	Factory expansion
	Development of Endo E plus
	Development of Ki-20 Advance
	Development of K35 cube
2018	Development of Endo A Class (APX)
	Development of MINI cro
	Korean World-class Product Award 2018
2019	Awarded for Daegu Star Company
	Development of Escort II pro (Ver2)
2020	Good Design Selection 2020
	Awarded for Daegu Star Company
	Development of Escort III (Ver2)
2021	Awarded for Daegu Star Company
	Development of K38 pro
	Development of K48 pro
	Development of K35 mini
	Development of Pro M Class

PRODUCT LINE UP

DENTAL HANDPIECE

STRAIGHT HANDPIECE

CONTRA ANGLE

POLISHING HANDPIECE

SURGICAL HANDPIECE

IMPLANT HANDPIECE

ORTHODONTICS

PRO M CLASS

For hygienist
For orthodontist

ORAL SURGERY & IMPLANTOLOGY

Ki-20

Ki-20 Advance

PRO M CLASS

For Torque Driver

ENDODONTICS

Endo A Class

Endo A Class (LED)

Endo A Class (APX)

Endo E Class

Endo E plus

ELECTRIC MICROMOTOR

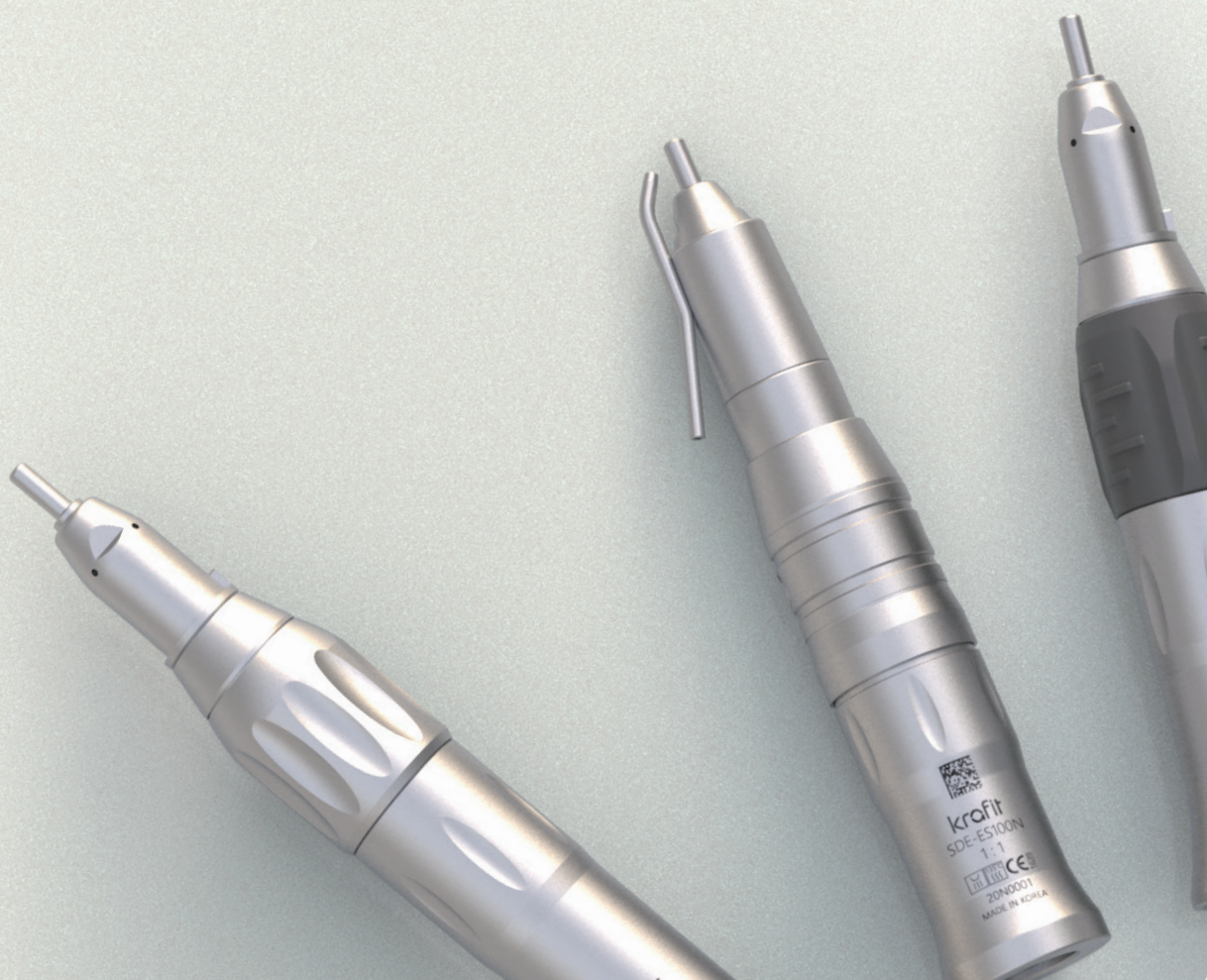
KE-40I

KE-40E

KE-40EI

SPARE PARTS

DENTAL HANDPIECE



CONTRA & STRAIGHT HANDPIECE



SDE-ES6

SPEED	MAX. 40,000 rpm
GEAR RATIO	1 : 1
WEIGHT	71 g
DIMENSIONS	L85 x Ø20



SDE-ES04

SPEED	MAX. 10,000 rpm
GEAR RATIO	4 : 1
WEIGHT	86 g
DIMENSIONS	L100 x Ø20



EXTERNAL WATER SPRAY

SDE-ES100N

SPEED	MAX. 10,000 rpm
GEAR RATIO	1 : 1
WEIGHT	75 g
DIMENSIONS	L88 x Ø17.5



PUSH TYPE

SP-CE

SPEED	MAX. 40,000 rpm
GEAR RATIO	1 : 1
WEIGHT	58 g
DIMENSIONS	L81 x Ø20

POLISHING HANDPIECE



SDE-EP6

SPEED	MAX. 20,000 rpm
GEAR RATIO	1 : 1
WEIGHT	70 g
DIMENSIONS	L88 x Ø20



SDE-EP04

SPEED	MAX. 5,000 rpm
GEAR RATIO	4 : 1
WEIGHT	80 g
DIMENSIONS	L95,5 x Ø20

SURGICAL HANDPIECE



OSCILLATING

EXTERNAL
WATER SPRAY

SGS-O

STROKES	MAX. 12,800 strokes/min
GEAR RATIO	3 : 1
WEIGHT	89.5 g
DIMENSIONS	L107 x Ø20



SAGITTAL

EXTERNAL
WATER SPRAY

SGS-S

STROKES	MAX. 12,600 strokes/min
GEAR RATIO	3 : 1
WEIGHT	92 g
DIMENSIONS	L109 x Ø20



RECIPROCATING

EXTERNAL
WATER SPRAY

SGS-R

STROKES	MAX. 12,600 strokes/min
GEAR RATIO	3 : 1
WEIGHT	94.5 g
DIMENSIONS	L110 x Ø20



EXTERNAL
WATER SPRAY

SGC-S101

SPEED	MAX. 40,000 rpm
GEAR RATIO	1 : 1
WEIGHT	74 g
DIMENSIONS	L110 x Ø20

IMPLANT HANDPIECE



OPTIC

**RIGHT-HANDED
LEFT-HANDED**

**INTERNAL
WATER SPRAY**

**EXTERNAL
WATER SPRAY**

KI-AG20L

SPEED

MAX. 2,000 rpm

GEAR RATIO

20 : 1

TORQUE

MAX. 70Ncm

WEIGHT

85 g

DIMENSIONS

L98 x Ø20



NON-OPTIC

**RIGHT-HANDED
LEFT-HANDED**

**INTERNAL
WATER SPRAY**

**EXTERNAL
WATER SPRAY**

KI-AG20

SPEED

MAX. 2,000 rpm

GEAR RATIO

20 : 1

TORQUE

MAX. 70Ncm

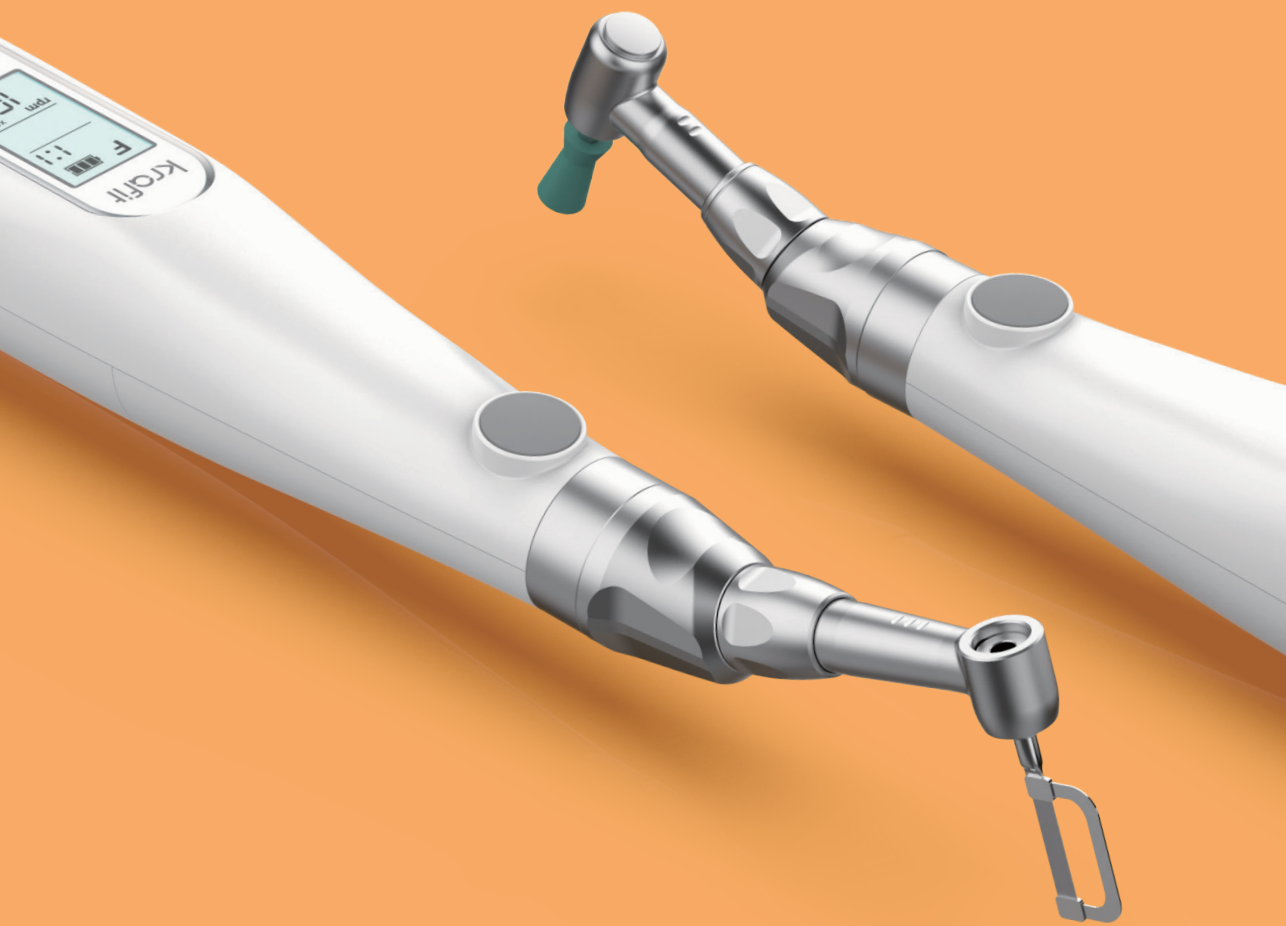
WEIGHT

95 g

DIMENSIONS

L95 x Ø20

ORTHODONTICS



PRO M CLASS

For hygienist
For orthodontist

LI-ION battery (rechargeable)
Wireless & wired charging (C type)
2 gear ratio (1:1, 4:1)
Operatable for 90 min



WIRELESS

PRO M CLASS is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

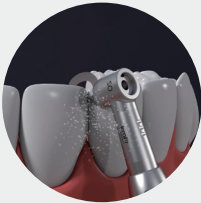
C TYPE CABLE

It can be charged with a highly compatible C TYPE cable.



MULTIPLE TREATMENTS POSSIBLE WITH ONE MOTOR

It can be used in various procedures by changing the angle and gear ratio.

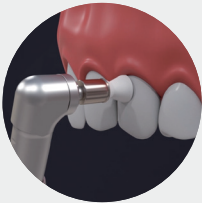


Stripping

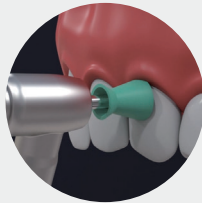
Orthodontic



Screw type



Push type



Polishing



CONTENTS

Motor handpiece / Contra angle / Charger / Adapter / Spray nozzle / Switch lever / Motor handpiece cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-ion, 3.7V, 800mA
Weight	86.5g
Dimension(mm)	W26.6 x D27.2 x H145.1
Model	Charger
Weight	97.5
Dimension(mm)	W81.4 x D103.7 x H46.7

Model	Adapter
Input	AC 100-240V, 50/60Hz, 0.6A
Output	DC 5V 1.2A
Weight	104.0g
Dimension(mm)	W43.5 x D74.0 x H36.8

Contra angle			
Model	SO-OT6	SC-R04	SPC-R04
Gear ratio	1:1	4:1	4:1
Max. speed	10,000 rpm	2,500 rpm	2,500 rpm
Weight	35.5g	34.0g	35.5g
Dimension(mm)	L62.1 x Ø16.7	L59.8 x Ø16.7	L59.0 x Ø16.7

PRO M CLASS

For orthodontist

LI-ION battery (rechargeable)
Wireless & wired charging (C type)
Gear ratio (160:1)
Operatable for 90 min



Temporary anchorage devices

WIRELESS

PRO M CLASS is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

C TYPE CABLE

It can be charged with a highly compatible C TYPE cable.



CONTENTS

Motor handpiece / Contra angle / Charger / Adapter / Spray nozzle / Switch lever / Motor handpiece cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-ion, 3.7V, 800mA
Weight	86.5g
Dimension(mm)	W26.6 x D27.2 x H145.1

Model	Charger
Weight	97.5
Dimension(mm)	W81.4 x D103.7 x H46.7

Model	Contra angle(TD-160)
Gear ratio	160:1
Max. speed	70rpm
Weight	66.0g
Dimension(mm)	L75.2 x Ø16.7

Model	Adapter
Input	AC 100-240V, 50/60Hz, 0.6A
Output	DC 5V 1.2A
Weight	104.0g
Dimension(mm)	W43.5 x D74.0 x H36.8

Model	Lever switch
Weight	5g
Dimension(mm)	W70.7 x D24.1 x H26.7

NOTE

ORAL SURGERY & IMPLANTOLOGY



Ki-20

Optic led control

9 memory programs can be stored on single motor

Large LCD display



ERGONOMIC ANGLE SHAPE TO IMPROVE HANDGRIP

Efficient cooling provides high cooling without disturbing visibility, and it is divided into two types, right-handed and left-handed, so that the treatment can be performed under optimal conditions.



POWERFUL OPTIC MICRO MOTOR

Ki-MTO motor is equipped with powerful optic function, which helps to improve the accuracy of operation with high visibility.



CONTENTS

Control unit / Micromotor / Motor cable / Implant handpiece / Foot control / Foot hanger / Handpiece stand / Coolant hanger / Power cord / Irrigation tube / Motor plug

SPECIFICATION

Model	Control unit(Ki-20)
Input	AC 100-120V, 50/60Hz AC 220-240V, 50/60Hz
Output	100VA
Weight	2,606g
Dimension(mm)	W240 x D225 x H97

Model	Micromotor (Ki-MTO)
Max. Speed	40,000 rpm
Weight	265g
Dimension(mm)	L117 x Ø22

Model	Foot control(Ki-F20)
Weight	1,015g
Dimension(mm)	W218 x D190 x H57

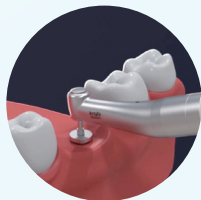
Implant handpiece		
Model	KI-AG20L (OPTIC)	KI-AG20 (NON-OPTIC)
Gear ratio	20 : 1	20 : 1
Max. speed	2,000 rpm	2,000 rpm
Max. torque	80Ncm	80Ncm
Weight	85 g	95 g
Dimension(mm)	L98 x Ø20	L95 x Ø20



PRO M CLASS

For implant torque driver

LI-ION battery (rechargeable)
Wireless & wired charging (C type)
Gear ratio (320:1)
Operatable for 90 min



Implant torque driver

WIRELESS

PRO M CLASS is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

C TYPE CABLE

It can be charged with a highly compatible C TYPE cable.



CONTENTS

Motor handpiece / Contra angle / Charger / Adapter / Spray nozzle / Switch lever / Motor handpiece cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-ion, 3.7V, 800mA
Weight	86.5g
Dimension(mm)	W26.6 x D27.2 x H145.1

Model	Charger
Weight	97.5
Dimension(mm)	W81.4 x D103.7 x H46.7

Model	TD-320
Gear ratio	320:1
Max. speed	25rpm
Weight	66.5g
Dimension(mm)	L75.2 x Ø16.7

Model	Adapter
Input	AC 100-240V, 50/60Hz, 0.6A
Output	DC 5V 1.2A
Weight	104.0g
Dimension(mm)	W43.5 x D74.0 x H36.8

Model	Lever switch
Weight	5g
Dimension(mm)	W70.7 x D24.1 x H26.7



ENDODONTICS



Endo A Class

- Suitable for endodontic procedures
- Auto stop reverse feature
- 6 Memory programs
- Ni-MH battery
- Operatable for 90 min



Auto Stop Reverse Forward **QA**

When the motor handpiece is overloaded, it stops running immediately and runs in reserve direction until the overload is solved. After the overload is solved, the handpiece starts and runs again in forward direction.

Auto Stop Reverse Stop **A**

When the motor handpiece is overloaded, it stops running immediately and runs in reserve direction until the overload is solved. After the overload is solved, the handpiece stops running.

Auto Stop **NO INDICATION**

When the motor handpiece is overloaded, it stops running. If you need to run the motor handpiece in forward direction, press the on/off switch.



CONTENTS

Motor handpiece / Contra angle / Charger / Power Cord / Spray nozzle / Motor handpiece cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-MH, 2.4V, 1000mA
Weight	150g
Dimension(mm)	W135 x D27 x H28

Model	Charger
Input power	AC 100-240V, 11VA
Rated current	800mA
Weight	160g
Dimension(mm)	W98 x D115 x H60

Model	Contra angle(SP-RA16)
Gear ratio	16:1
Speed	140 - 500 rpm
Weight	366g
Dimension(mm)	L76 x Ø18

Endo A Class (LED)

- Wireless endo motor
- Suitable for endodontic procedures with LED light
- Wider LCD display
- Auto stop reverse feature
- 9 Memory programs
- Li-ion battery
- Operatable for 90 min



WIRELESS

Endo A Class (LED) is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

LED LIGHT

Suitable for endodontic procedure with LED light



CONTENTS

Motor handpiece / Contra angle / LED ass'y / Charger / Power Cord / Spray nozzle / LED cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-ion, 3.7V, 800mA
Weight	130g
Dimension(mm)	W29.9 x D32.9 x H157.1

Model	Charger
Main Voltage	AC 100-240V, 50/60Hz
Rated Capacity	300mA
Weight	150g
Dimension(mm)	W100.0 x D100.0 x H49.4

Model	Contra angle(SP-RA16N)
Gear ratio	1:1
Speed	150 - 600 rpm
Weight	30g
Dimension(mm)	L87.0 x Ø15.5

Endo A Class (APX)

Wireless endo motor with apex locator for root canal treatment
Suitable for endodontic procedures with LED light
Wider LCD display
Auto stop reverse feature
9 Memory programs
Li-ion battery
Operatable for 90 min



WIRELESS

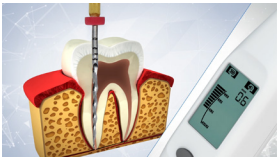
Endo A Class (APX) is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

LED LIGHT

Suitable for endodontic procedure with LED light

APEX LOCATOR

Endo A Class (APX) can use the Apex locator function at the same time as the procedure. Also, you can check the length of the root canal in real time through the graph on the large LCD screen.



CONTENTS

Motor handpiece / Contra angle / LED ass'y / Charger / Power Cord / Spray nozzle
/ Canal measurement module cable / Insulation sleeve/ LED cap

SPECIFICATION

Model	Motor handpiece
Rechargeable battery	Li-ion, 3.7V, 800mA
Weight	130g
Dimension(mm)	W29.9 x D32.9 x H157.1

Model	Charger
Main Voltage	AC 100-240V, 50/60Hz
Rated Capacity	300mA
Weight	150g
Dimension(mm)	W100.0 x D100.0 x H49.4

Model	Contra angle(SP-RA16N)
Gear ratio	1:1
Speed	150 - 600 rpm
Weight	30g
Dimension(mm)	L87.0 x Ø15.5

Endo E Class

- Suitable for endodontic procedures
- Auto stop reverse feature
- 15 Memory programs
- E-Type(SDE-EM24E) Endo Handpiece
- On/off foot switch



CONTENTS

Control unit / Micromotor / Contra angle / Foot switch / Handpiece stand / Power cord

SPECIFICATION

Model	Control unit
Input	AC 100~120V, 50/60Hz AC 220~240V, 50/60Hz
Output	DC24V
Weight	910g
Dimension(mm)	W175 x D125 x H90

Model	Micromoto(EM24E)
Max speed	17,500 rpm
Weight	160g
Dimension(mm)	W98 x D115 x H60

Model	Contra angle(SP-RE16)
Gear ratio	16:1
Speed	140 - 500 rpm
Weight	366g
Dimension(mm)	L76 x Ø18



Endo E plus

- Endo motor with apex locator for root canal treatment
- Suitable for endodontic procedures with LED light
- Wider LCD display
- Auto stop reverse feature
- Automatic power saving
- 9 Memory programs
- Li-ion battery
- Real time torque level



LED LIGHT

Suitable for endodontic procedure with LED light

APEX LOCATOR

Endo E plus (APX) can use the Apex locator function at the same time as the procedure. Also, you can check the length of the root canal in real time through the graph on the large LCD screen.



CONTENTS

Control unit / Motor handpiece / Canal measurement module cable / Contra angle / Power adapter / Handpiece stand / Handpiece holder / LED ass'y / Spray nozzle / Lip clip / Insulation sleeve / LED cap

SPECIFICATION

Model	Control unit
Rechargeable battery	Li-ion, 7.4V, 2.6Ah
Weight	507g
Dimension(mm)	W105 x D179 x H110

Model	Contra angle(SP-RA16N)
Gear ratio	1:1
Speed	50 - 600 rpm
Weight	30g
Dimension(mm)	L87.0 x Ø15.5

Model	Motor Handpiece
Weight	85g
Dimension(mm)	L124.9 x Ø21.8

Model	Power adapter
Input	90-250V 0.3A 50/60Hz
Output	12V, 1A



NOTE

ELECTRIC MICROMOTOR



Internal type

KE-40I

Flexible installation and customised positioning

Compact micro motor 40.000 rpm(1:1)

Optic LED control

Up to 5 programs

4 gear ratios

Dual motor



Flexible installation and customised positioning

The compact size allows you to mount various control units according to your needs. With a minimum of space and simple installation, you can use the electric motor that can be applied to a wide range of treatments.



4 GEAR RATIOS FOR A WIDE RANGE OF TREATMENTS

By setting a total of 4 gear ratios (1:5, 1:1, 4:1, 16:1), a wide speed range can be covered, and various settings can be made to apply to a wide range of treatments.

Gear Ratio	RPM Display Range (rpm)
1:5	10,000 ~ 200,000
1:1	2,000 ~ 40,000
4:1	500 ~ 10,000
16:1	100 ~ 1,000

POWERFUL OPTIC DUAL MICRO MOTOR

Ki-MTO motor is equipped with powerful optic function, which helps to improve the accuracy of operation with high visibility. In addition to particularly compact, lightweight, easy-to-grip and consistently high output power, features such as long service life and quiet operation aid the procedure.



CONTENTS

Control unit / Main unit / Micromotor / Motor cable / Mounting bracket / AC Cable / C to C Cable / Mounting bracket bolts and nuts / Motor plug / Motor cap

SPECIFICATION

Model	Control unit (Ke-40 UI)
Input	AC 24V, 50/60Hz
Weight	185g
Dimension(mm)	W97.5 x D130.6 x H141.4

Model	Main Unit (Ke-40 IM)
Weight	335g
Dimension(mm)	W126.1 x D128.9 x H39.6

Model	Micromotor (KEM-40L)
Speed range	2,000 – 40,000rpm
Water supply	100mL/min
Weight	70.5g
Dimension(mm)	L74.5 x Ø22.0



External type

KE-40E

Flexible installation and customised positioning

Compact micro motor 40.000 rpm(1:1)

Optic LED control

Up to 5 programs

4 gear ratios



CONTENTS

Control unit / Main unit / Micromotor / Motor cable / Mounting bracket / DC Adapter
/ C to C Cable / Power Cord / Mounting bracket bolts and nuts / Motor plug / Motor cap



SPECIFICATION

Model	Control unit (KE-40 UI)
Weight	185g
Dimension(mm)	W97.5 x D130.6 x H141.4

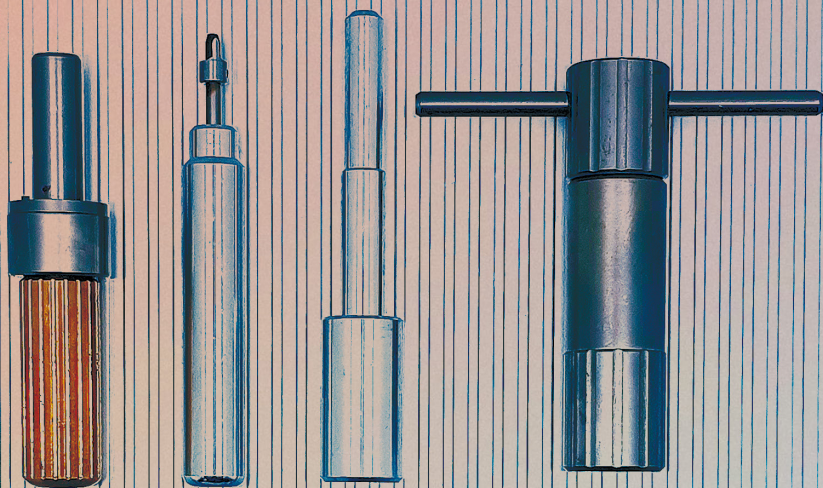
Model	Micromotor (KEM-40L)
Speed range	2,000 – 40,000rpm
Water supply	100mL/min
Weight	70.5g
Dimension(mm)	L74.5 x Ø22.0

Model	Main unit (KE-40EM)
Weight	243 g
Dimension(mm)	W96.8 x D130.4 x H116.1







Model	DC Adapter
Input	AC100-240V, 50/60Hz
Output	24Vdc, 2.7A
Weight	261g
Dimension(mm)	W120.0 x D52.0 x H35.0

NOTE


SPARE PARTS







CONTRA & STRAIGHT HANDPIECE

MODEL	PART NAME	PICTURE
SDE-ES6 SDE-ES04	SPRAY NOZZLE	
SDE-ES100N	EXTERNAL WATER NOZZLE	
	SPRAY NOZZLE	
SP-CE	SP HEAD ASS'Y	
	BODY ASS'Y	
	SPRAY NOZZLE	







POLISHING HANDPIECE

MODEL	PART NAME	PICTURE
SDE-EP6 SDE-EP04	SPRAY NOZZLE	


SURGICAL HANDPIECE

MODEL	PART NAME	PICTURE
SGS-O SGS-S SGS-R	EXTERNAL WATER NOZZLE	
	SPRAY NOZZLE	
SGC-S101	EXTERNAL WATER NOZZLE	
	SPRAY NOZZLE	









IMPLANT HANDPIECE

MODEL	PART NAME	PICTURE
KI-AG20 KI-AG20L	HEAD GEAR HOUSING ASS'Y	
	MIDDLE GEAR HOUSING ASS'Y	
	NOZZLE CLAMP	
	WRENCH	
	NOZZLE PIN	
	INTERNAL SPRAY NOZZLE	

MAINTENANCE & REPAIR TOOL BOX

MODEL	PART NAME	PICTURE
REPAIR TOOL BOX	DENTAL HANDPIECE	

















ORTHODONTICS

MODEL	PART NAME	PICTURE
PRO M CLASS	CONTRA ANGLE SO-OT6	
	CONTRA ANGLE SC-R04	
	CONTRA ANGLE SPC-R04	
	MOTOR HANDPIECE	
	CHARGER	
	ADAPTER	
	SPRAY NOZZLE	
	MOTOR HANDPIECE CAP	



















ORAL SURGERY & IMPLANTOLOGY

MODEL	PART NAME	PICTURE
KI-20	CONTROL UNIT KI-20	
	MICRO MOTOR KI-MTO	
	IMPLANT HANDPIECE KI-AG20 / NON-OPTIC	
	IMPLANT HANDPIECE KI-AG20L / OPTIC	
	FOOT CONTROL KI-F20	
	FOOT HANGER	
	POWER CORD	
	IRRIGATION TUBE	
	MOTOR PLUG	
	HANDPIECE STAND	
	COOLANT HANGER	
PRO M CLASS	CONTRA ANGLE TD-160	
	CONTRA ANGLE TD-320	
	MOTOR HANDPIECE	
	CHARGER	
	ADAPTER	
	SPRAY NOZZLE	
	SWITCH LEVER	
	MOTOR HANDPIECE CAP	


























ENDODONTICS

MODEL	PART NAME	PICTURE
ENDO A CLASS (APX)	CONTRA ANGLE SP-RA16N	
	MOTOR HANDPIECE	
	CHARGER	
	POWER CORD	
	OPTIC LED ASS'Y	
	SPRAY NOZZLE	
	CANAL MEASUREMENT MODULE CABLE	
	LIP CLIP	
	INSULATION SLEEVE	
	LED CAP	
ENDO A CLASS (LED)	CONTRA ANGLE SP-RA16N	
	MOTOR HANDPIECE	
	CHARGER	
	POWER CORD	
	OPTIC LED ASS'Y	
ENDO A CLASS	SPRAY NOZZLE	
	LED CAP	
	CONTRA ANGLE SP-RA16N	
	MOTOR HANDPIECE	
	CHARGER	
	POWER CORD	
	SPRAY NOZZLE	
	MOTOR HANDPIECE CAP	

ENDODONTICS

MODEL	PART NAME	PICTURE
ENDO E PLUS	CONTROL UNIT	
	MOTOR HANDPIECE	
	CANAL MEASUREMENT MODULE CABLE	
	CONTRA ANGLE SP-RA16N	
	POWER ADAPTER	
	HANDPIECE STAND	
	HANDPIECE HOLDER	
	OPTIC LED ASS'Y	
	SPRAY NOZZLE	
	LIP CLIP	
	INSULATION SLEEVE	
	LED CAP	
ENDO E CLASS	CONTROL UNIT	
	MICRO MOTOR EM24E	
	MOTOR CORD	
	CONTRA ANGLE SP-RE16	
	FOOT SWITCH	
	HANDPIECE STAND	
	POWER CORD	

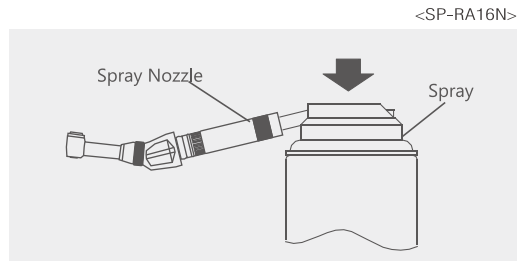
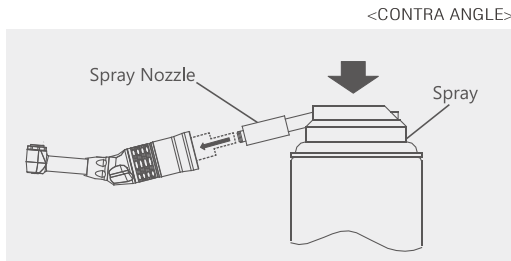
ELECTRIC MICROMOTOR

MODEL	PART NAME	PICTURE
KE-40I	CONTROL UNIT KE-40UI	
	MICRO MOTOR KEM-40L	
	MOTOR CABLE	
	MAIN UNIT KE-40 IM	
	C TO C CABLE	
	MOUNTING BRACKET	
	AC CABLE	
	MOTOR PLUG / MOTOR CAP	
KE-40EI	CONTROL UNIT KE-40UI	
	MICRO MOTOR KEM-40L	
	MOTOR CABLE	
	KE-40EM	
	POWER UNIT	
	C TO C CABLE	
	MOUNTING BRACKET	
	AC CABLE / DC CABLE	
	MOTOR PLUG / MOTOR CAP	
KE-40E	CONTROL UNIT KE-40UI	
	MICRO MOTOR KEM-40L	
	MOTOR CABLE	
	MAIN UNIT KE-40 EM	
	C TO C CABLE	
	MOUNTING BRACKET	
	DC ADAPTER	
	MOTOR PLUG / MOTOR CAP	

USER GUIDE (For safety & efficiency)

Lubrication I Oil

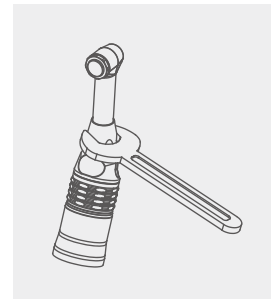
- * After each use, please lubricate the contra angle hand piece and keep it under normal condition.
 - * The contra angle handpiece detached from air motor or micromotor should be lubricated as following order.
- 1) Shake the oil spray about 10 times to mix the contents enough, and install the enclosed spray nozzle on the spray.
 - 2) Clean the entrance of spray nozzle.
 - 3) Insert the spray nozzle into the inserting part of the contra angle hand piece.
 - 4) Spray for 2-3 seconds.



- 5) If the contra angle hand piece is contaminated by blood or etc., please unscrew the nut and disassemble the contra head by using a spanner
- 6) Clean the detached contra head with flowing water or ultrasonic cleaner.
- 7) After cleaning the contra head, dry it out completely and lubricate enough to remove the water inside of it.

Autoclave I Dry

- * Autoclaving is recommended.
 - * The contra angle handpiece should be sterilized after each use.
 - * Autoclaving sequence
- 1) Clean the dust using the brush, and wipe off the contra angle with the soft cloths wet by alcohol.
 - 2) After detaching the contra angle from micromotor, and lubricate it.
 - 3) Put the contra angle handpiece without a micromotor into the autoclave.
 - 4) Set the temperature of the autoclave. (e.g. about 4 minutes at 132°C)
 - 5) Keep the contra angle handpiece under normal condition after autoclaving and drying it out.(drying 30 minutes)



Caution

- 1) Place the contra angle handpiece on the upper or middle tray of the autoclave. If there is the heat generator at the bottom of it, placing the contra angle handpiece at the bottom could cause the possibility that the temperature exceeds a set point.
- 2) Do not place the contra angle handpiece into the autoclave with other contaminated instruments by chemical substances to prevent discoloration or corrosion of its plating.
- 3) It is necessary for the users to operate our products by following the maintenance requirements in this manual. The manufacture is not responsible for any accident or problem caused by not following the manual.
- 4) The device consists the durability of at least 250 sterilization cycles.
- 5) In case of anything wrong with products, please stop using the products and contact your local dealer.
- 6) Do not try to disassemble or convert the contra angle handpiece except for instructions mentioned on the manual.
- 7) Be careful not to drop the contra angle handpiece and be away from any impact.
- 8) Please pay attention to the condition of a contra angle handpiece such as vibration, heat generation and instability of the file.
- 9) Do not push the button while the file is rotating.
- 10) The contra angle hand piece should be disconnected from micromotor after rotation of a file completely stops.
- 11) If the head part inside is contaminated, please detach the gear-shift and do the cleaning inside of it, and then lubricate the contra angle handpiece and try to reassemble carefully.

NOTE

NOTE

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